The new degree of comfort.™

Rheem *Classic*® Series Heat Pump

RP14 Series

Efficiencies: 14 SEER/11.5 EER 8.2 HSPF
Nominal Sizes 1½ to 5 Ton [5.28 to 17.6 kW]
Cooling Capacities 17.3 to 60.5 kBTU
[5.7 to 17.7 kW]

"Proper sizing and installation of equipment is critical to achieve optimal performance. Ask your Dealer for details or visit www.energystar.gov."

- New composite base pan – dampens sound, captures louver panels, eliminates corrosion and reduces number of fasteners needed
- Improved tubing design – reduces vibration and stress, making unit quieter and reducing opportunity for leaks
- Optimized defrost characteristics - decrease defrosting and provide better home comfort
- Powder coat paint system – for a long lasting professional finish
- Optimized reversing valve sizing – improves shifting performance for quieter unit operation and increased life of the system
- Enhanced mufflers – help to dissipate vibration energy for quieter unit operation
- Scroll compressor – a sound abating feature added to the compressor significantly reduces noise when system transitions in and out of defrost mode
- Modern cabinet aesthetics – increased curb appeal with visually appealing design
- Curved louver panels – provide ultimate coil protection, enhance cabinet strength, and increased cabinet rigidity
- Optimized fan orifice – optimizes airflow and reduces unit sound
- Rust resistant screws – confirmed through 1500-hour salt spray testing
- PlusOne™ **Expanded Valve Space** – 3"-4"-5" service valve space – provides a minimum working area of 27-square inches for easier access
- Integrated heat pump lift receptacle – allows standard CPVC stands to be inserted into the base
- PlusOne™ **Triple Service Access** – 15" wide, industry leading corner service access – makes repairs easier and faster. The two fastener removable corner allows optimal access to internal unit components. Individual louver panels come out once fastener is removed, for faster coil cleaning and easier cabinet reassembly
- Diagnostic service window with two-fastener opening – provides access to the TXV valves and the heat pump reversing valve before opening the unit.
- External gauge port access – allows easy connection of "low-loss" gauge ports
- Single-row condenser coil – makes unit lighter and allows thorough coil cleaning to maintain "out of the box" performance
- 35% fewer cabinet fasteners and fastener-free base – allow for faster access to internal components and hassle-free panel removal
- Service trays – hold fasteners or caps during service calls
- QR code – provides technical information on demand for faster service calls
- Fan motor harness with extra-long wires – allows unit top to be removed without disconnecting fan wire

TABLE OF CONTENTS

Standard Feature Table 3
Available SKUs 3
Features & Benefits 4-5
Model Number Identification 6-7
Physical Data 8
Electrical Data 8
Accessories 9
Weighted Sound Power 9
Thermostats 9
Unit Dimensions 10
Clearances 11
Wiring Diagrams 12
Application Guidelines 12
Refrigerant Line Size Information 13-14
Performance Data 15-18
Guide Specifications 19
Limited Warranty 20

Standard Feature Table

Feature	18	24	30	36	42	48	60
R-410a Refrigerant	√	√	√	√	√	√	√
Maximum SEER	14	14	14	14	14	14	14
Maximum EER	11.5	11.5	11.5	11.5	11.5	11.5	11.5
Scroll Compressor	√	√	√	√	√	√	√
Field Installed Filter Drier	√	√	√	√	√	√	√
Front Seating Service Valves	√	√	√	√	√	√	√
High Pressure Switch	√	√	√	√	√	√	√
Low Pressure Switch	√	√	√	√	√	√	√
Internal Pressure Relief Valve	√	√	√	√	√	√	√
Internal Thermal Overload	√	√	√	√	√	√	√
Long Line capability	√	√	√	√	√	√	√
Low Ambient capability with Kit	√	√	√	√	√	√	√
3-4-5 Service Valve Access	√	√	√	√	√	√	√
Composite Basepan	√	√	√	√	√	√	√
2 Screw Control Box Access	√	√	√	√	√	√	√
15" Access to Internal Components	√	√	√	√	√	√	√
Quick release louver panel design	√	√	√	√	√	√	√
No fasteners to remove along bottom	√	√	√	√	√	√	√
Optimized Venturi Airflow	√	√	√	√	√	√	√
Single row condenser coil	√	√	√	√	√	√	√
Powder coated paint	√	√	√	√	√	√	√
Rust resistant screws	√	√	√	√	√	√	√
QR code	√	√	√	√	√	√	√
External gauge ports	√	√	√	√	√	√	√
Service trays	√	√	√	√	√	√	√

√ = Standard

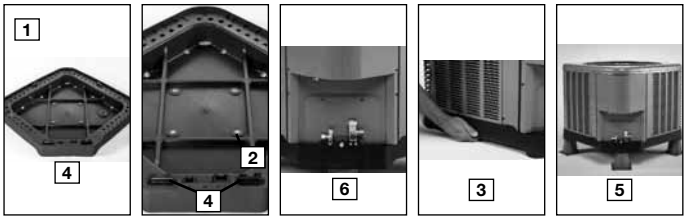
Available SKU

Available Models	Description
RP1418AJ1NA	*Classic*® 1 1/2 ton 14 SEER Single-Stage Heat Pump-208/230/1/60
RP1424AJ1NA	*Classic*® 2 ton 14 SEER Single-Stage Heat Pump-208/230/1/60
RP1430AJ1NA	*Classic*® 2 1/2 ton 14 SEER Single-Stage Heat Pump-208/230/1/60
RP1436AJ1NA	*Classic*® 3 ton 14 SEER Single-Stage Heat Pump-208/230/1/60
RP1442AJ1NA	*Classic*® 3 1/2 ton 14 SEER Single-Stage Heat Pump-208/230/1/60
RP1448AJ1NA	*Classic*® 4 ton 14 SEER Single-Stage Heat Pump-208/230/1/60
RP1460AJ1NA	*Classic*® 5 ton 14 SEER Single-Stage Heat Pump-208/230/1/60
RP1436AC1NA	*Classic*® 3 ton 14 SEER Single-Stage Heat Pump-208/230/3/60
RP1442AC1NA	*Classic*® 3 1/2 ton 14 SEER Single-Stage Heat Pump-208/230/3/60
RP1448AC1NA	*Classic*® 4 ton 14 SEER Single-Stage Heat Pump-208/230/3/60
RP1460AC1NA	*Classic*® 5 ton 14 SEER Single-Stage Heat Pump-208/230/3/60
RP1436AD1NA	*Classic*® 3 ton 14 SEER Single-Stage Heat Pump-460/3/60
RP1442AD1NA	*Classic*® 3 1/2 ton 14 SEER Single-Stage Heat Pump-460/3/60
RP1448AD1NA	*Classic*® 4 ton 14 SEER Single-Stage Heat Pump-460/3/60
RP1460AD1NA	*Classic*® 5 ton 14 SEER Single-Stage Heat Pump-460/3/60

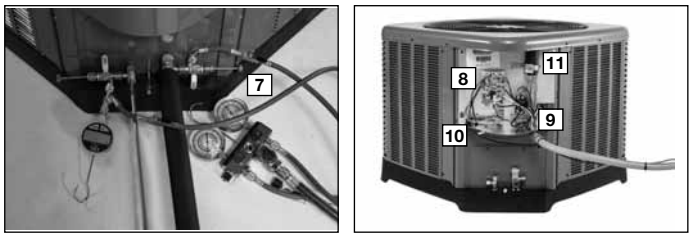
Introduction to RP14 Heat Pump

The RP14 is our 14 SEER heat pump and is part of the Rheem heat pump product line that extends from 14 to 20 SEER. This highly featured and reliable heat pump is designed for years of reliable, efficient operation when matched with Rheem indoor aluminum evaporator coils and furnaces or air handler units with aluminum evaporators.

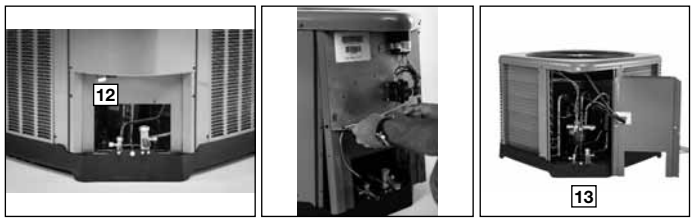
Our unique composite base (1) reduces sound emission, eliminates rattles, significantly reduces fasteners, eliminates corrosion and has integrated brass compressor attachment inserts (2). Furthermore it has incorporated into the design, water management features, means for hand placement (3) for unit maneuvering, screw trays (4) and inserts for lifting unit off pad. (5)



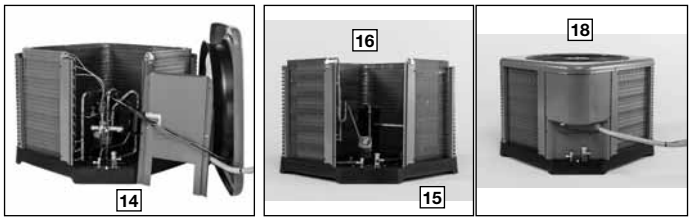
Service Valves (6) are rigidly mounted in the composite base with 3" between suction and discharge valves, 4" clearance below service valves and a minimum of 5" above the service valves, creating industry leading installation ease. The minimum 27-square inches around the service valves allows ample room to remove service valve schrader prior to brazing, plenty of clearance for easy brazing of the suction and discharge lines to service valve outlets, easy access and hookup of low loss refrigerant gauges (7), and access to the service valve caps for opening. For applications with long-line lengths up to 250 feet total equivalent length, up to 200 feet heat pump above evaporator, or up to 80 feet evaporator above heat pump, the long-line instructions in the installation manual should be followed.



Controls are accessed from the corner of the unit by removing only two fasteners from the control access cover, revealing the industry's largest 15" wide and 14" tall control area (8). With all this room in the control area the high voltage electrical whip (9) can easily be inserted through the right size opening in the bottom of the control area. Routing it leads directly to contractor lugs for connection. The low voltage control wires (10) are easily connected to units low voltage wiring. If contactor defrost control or capacitor (11) needs to be replaced there is more than adequate space to make the repair. Furthermore, the service window (12) can be removed to access the TXV and reversing valve by removing two screws or the entire corner can be removed providing ultimate access to the TXV or reversing valve. (13)



If in the rare event, greater access is needed to internal components, such as the compressor, the entire corner of the unit can be removed along with the top cover assembly to have unprecedented access to interior of the unit (14). Extra wire length is incorporated into each outdoor fan and compressor so top cover and control panel can be positioned next to unit. With minimal effort the plug can be removed from the compressor and the outdoor fan wires can be removed from the capacitor to allow even more uncluttered access to the interior of the unit (15). Outdoor coils heights range from as short as 22" to 32", aiding access to the compressor. Disassembly to this degree and complete reassembly only takes a first time service technician less than 10 minutes. (18)

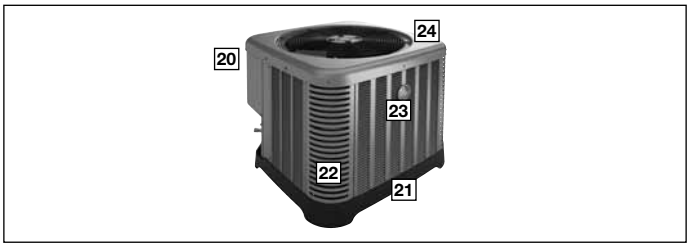


All units utilize strong formed louver panels which provide industry leading coil protection. Louver removal for coil cleaning is accomplished by removing one screw and lifting the panel out of the composite base pan (17). All RP14 units utilize single row coils (16) making cleaning easy and complete, restoring the performance of the heat pump back to out of the box performance levels year after year.

The outdoor fan motor has sleeve bearings and is inherently protected. The motor is totally enclosed for maximum protection from weather, dust and corrosion. Access to the outdoor fan is made by removing four fasteners from the fan grille. The outdoor fan can be removed from the fan grille by removing 4 fasteners in the rare case outdoor fan motor fails.

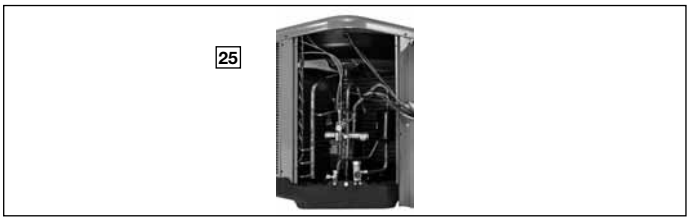
Each cabinet has optimized composite (19) fan orifice assuring efficient and quiet airflow.

The entire cabinet has powder post paint (20) achieving 1000 hour salt spray rating, allowing the cabinet to retain its aesthetics throughout its life.



Scroll compressors with standard internal pressure relief and internal thermal overload are used on all capacities assuring longevity of high efficient and quiet operation for the life of the product. All RP14 Heat Pumps come standard with high and low pressure switches.

Each unit is shipped with filter drier for field installation and will trap any moisture or dirt that could contaminate the refrigerant system.



All cabinets have industry leading structural strength due to the composite base pan (21), interlocking corner post (22), formed curved louver panels (23) and drawn top cover (24) making it the most durable cabinet on the market today.

Each RP14 capacity has undergone rigorous psychrometric testing to assure performance ratings of capacity, SEER, EER and HSPF per AHRI Standard 210/240 rating conditions. Also each unit bears the UL mark and each unit is certified to UL 1995 safety standards.

Each unit has undergone specific strain and modal testing to assure tubing (25) is outside the units natural frequency and that the suction and discharge lines connected to the compressor with stand any starting, steady state operation or shut down forces imposed by the compressor.

All units have been sound tested in sound chamber to AHRI 270 rating conditions, and A-weighted Sound Power Level tables produced, assuring units have acceptable noise qualities (see page 8). Each unit has been ran in cooling operation at 95°F and 47°F and sound ratings for the RP14 range from as low as 74 dBA to 77 dBA.

All units have been ship tested to assure units meet stringent “over the road” shipping conditions.

As manufactured all units in the RP14 family have cooling capability to 55 °F. Addition of low ambient control will allow the unit to operate down to 0°F.

Factory testing is performed on each unit. All component parts meet well defined specification and continually go through receiving inspections. Each component installed on a unit is scanned, assuring correct component utilization for a given unit capacity and voltage. All condenser coils are leak tested with pressurization test to 550#’s and once installed and assembled, each units’ complete refrigerant system is helium leak tested. All units are fully charged from the factory for up to 15 feet of piping. All units are factory run tested. The RP14 has a 10-year conditional compressor and parts warranty (registration required).

Optional Accessories (Refer to accessory chart for model #)

Compressor Crankcase Heater
- Protects against refrigerant migration that can occur during low ambient operation

Compressor Sound Cover
- Reinforced vinyl compressor cover containing a 1½ inch thick batt of fiberglass insulation
- Open edges are sealed with a one-inch wide hook and loop fastening tape

Compressor hard Start Kit
- Single-phase units are equipped with a PSC compressor motor. This type of motor normally does not need a potential relay and start capacitor
- In conditions such as low voltage, this kit may be required to increase the compressor starting torque

Low Ambient Kit
- Heat Pump operate satisfactorily in the cooling mode down to 55°F outdoor air temperature without any additional controls
- Kit can be added in the field enabling unit to operate properly down to 0° in the cooling mode
- Crankcase heater and freezestat should be installed on compressors equipped with a low ambient kit

3"/6"/12"
- Gray high density polyethylene feet are available to raise unit off of mounting surface away from moisture

Heat Pumps

R	P	14	24	A	J	1	N	A	*
Brand	**Product Category**	**SEER**	**Capacity BTU/HR**	**Major Series***	**Voltage**	**Type**	**Controls**	**Minor Series****	**Option Code**
Rheem	P - Heat Pump	13 - 13 SEER 14 - 14 SEER 16 - 16 SEER 17 - 17 SEER 20 - 20 SEER	18 - 18,000 [5.28 kW] 24 - 24,000 [7.03 kW] 30 - 30,000 [8.79 kW] 36 - 36,000 [10.55 kW] 42 - 42,000 [12.31 kW] 48 - 48,000 [14.07 kW] 60 - 60,000 [17.58 kW]	A - 1st Design	J - 1ph, 208-230/60 C - 3ph, 208-230/60 D - 3ph, 460/60	1 - Single-stage V - Inverter P - Piston	C - Communicating N - Non-communicating	A - 1st Design	N/A

Air Conditioners (For Reference)

R	A	14	24	A	J	1	N	A	*
Brand	**Product Category**	**SEER**	**Capacity BTU/HR [kW]**	**Major Series***	**Voltage**	**Type**	**Controls**	**Minor Series****	**Option Code**
Rheem	A - Air Conditioners	13 - 13 SEER 14 - 14 SEER 16 - 16 SEER 17 - 17 SEER 20 - 20 SEER	18 - 18,000 [5.28 kW] 24 - 24,000 [7.03 kW] 30 - 30,000 [8.79 kW] 36 - 36,000 [10.55 kW] 42 - 42,000 [12.31 kW] 48 - 48,000 [14.07 kW] 60 - 60,000 [17.58 kW]	A - 1st Design	J - 1ph, 208-230/60 C - 3ph, 208-230/60 D - 3ph, 460/60	1 - Single-stage 2 - Two-stage V - Inverter	C - Communicating N - Non-communicating	A - 1st Design	N/A

Furnace Coils (For Reference)

R	C	F	24	17	S	T	A	M	C	A	*
Brand	**Product Category**	**Type**	**Capacity BTU/HR**	**Width**	**Efficiency**	**Metering Device**	**Major Series***	**Orientation**	**Casing**	**Minor Series****	**Option Code**
Rheem	C - Evap Coil	F - Furn Coil H - Air-Handler Coil	24 - 24,000 [7.03 kW] 36 - 36,000 [10.55 kW] 48 - 48,000 [14.07 kW] 60 - 60,000 [17.58 kW]	14 - 14" 17 - 17.5" 21 - 21" 24 - 24.5"	S- Standard Eff. M- Mid Eff. H- High Eff.	T-TXV E-EEV P-Piston	A -1st Design	M - Multi-poise	C - Cased U - Uncased	A - 1st Design	N/A

[ ] Designates Metric Conversions

90%+ AFUE Gas Furnaces (For Reference)

R	96	V	A	70	2	3	17	M	S	A
Brand	**Series**	**Motor**	**Major Rev**	**Input BTU/HR [kW]**	**Stages**	**Air Flow**	**Cabinet Width**	**Configuration**	**Nox**	**Minor Rev**
Rheem	90 - 90 AFUE 92 - 92 AFUE 95 - 95 AFUE 96 - 96 AFUE 97 - 97 AFUE	V - Variable speed T - Constant Torque (X-13) P - PSC	A - 1st Design	040 - 42,000 [12.31 kW] 060 - 56,000 [16.41 kW] 070 - 70,000 [20.51 kW] 085 - 84,000 [24.62 kW] 100 - 98,000 [28.72 kW] 115 - 112,000 [32.82 kW]	1 - Single-stage 2 - Two-stage M - Modulating	3 - up to 3 ton 5 - 3 1/2 up to 5 ton	14 - 14" 17 - 17.5" 21 - 21" 24 - 24.5"	M - Multi-poise	X - Low Nox S - Standard	A - 1st Design

80% AFUE Gas Furnaces (For Reference)

R	80	2	V	A	075	3	17	M	S	A
Brand	**Series**	**Stages**	**Motor**	**Major Rev**	**Input BTU/HR [kW]**	**Air Flow**	**Cabinet Width**	**Configuration**	**Nox**	**Minor Rev**
Rheem	80 - 80+ AFUE	1 - Single-stage 2 - Two-stage	V - Variable speed T - Constant Torque (X-13) P - PSC premium S - PSC standard	A - 1st Design	050 - 50,000 [15 kW] 075 - 75,000 [22 kW] 100 - 100,000 [29 kW] 125 - 125,000 [37 kW] 150 - 150,000 [44 kW]	3 - up to 3 ton 4 - 2 1/2 to 4 ton 5 - 3 1/2 up to 5 ton	14 - 14" 17 - 17.5" 21 - 21" 24 - 24.5"	M - Multi D - Down Z - Down & zero clearance down flow	X - Low Nox S - Standard	A - 1st Design

Air Handlers (For Reference)

R	H	1	T	36	17	S	T	A	N	A	A	000	*
Brand	**Product Category**	**Stages of Airflow**	**Motor Type**	**Capacity BTU/HR**	**Width**	**Coil Size**	**Metering Device**	**Major Series***	**Controls**	**Voltage**	**Minor Series****	**Factory Heat Cap**	**Option Code**
Rheem	H - Air Handler	1 - Single-stage 2 - Two-stage M - Modulating	V - Variable Speed T - Constant Torque P - PSC	24 - 24,000 [7.03 kW] 36 - 36,000 [10.55 kW] 48 - 48,000 [14.07 kW] 60 - 60,000 [17.58 kW]	14 - 14" 17 - 17.5" 21 - 21" 24 - 24.5"	S - Standard Efficiency M - Mid Efficiency H - High Efficiency	T - TEV E - EEV P - Piston	A -1st Design	C - Communicating N - Non-communicating	A - 1ph, 115/60 J - 1ph, 208-240/60 D - 3ph, 480/60	A -1st Design	00 - no factory heat with option code	N/A

[ ] Designates Metric Conversions

Physical Data

Model No.#	RP1418	RP1424	RP1430	RP1436	RP1442	RP1448	RP1460
Nominal Tonnage	1.5	2.0	2.5	3.0	3.5	4.0	5.0
Valve Connections							
Liquid Line O.D. – in.	3/8	3/8	3/8	3/8	3/8	3/8	3/8
Suction Line O.D. – in.	3/4	3/4	3/4	3/4	7/8	7/8	7/8
Refrigerant (R410A) furnished oz.[1]	103	100.8	118	123	167	155	244
Compressor Type	Scroll						
Outdoor Coil							
Net face area – Outer Coil	9.1	9.1	11.1	14.9	14.8	19.8	24.2
Net face area – Inner Coil	—	—	—	—	—	—	—
Tube diameter – in.	3/8	3/8	3/8	3/8	3/8	3/8	3/8
Number of rows	1	1	1	1	1	1	1
Fins per inch	20	20	20	20	20	20	20
Outdoor Fan							
Diameter – in.	20	20	20	24	24	24	26
Number of blades	2	2	3	3	2	3	3
Motor hp	1/8	1/8	1/8	1/6	1/6	1/5	1/5
CFM	2410	2410	2535	3335	2945	4055	4780
RPM	1077	1077	1077	825	850	825	850
watts	154	156	142	173	161	228	279
Shipping weight – lbs.	156	151	162	178	208	234	269
Operating weight – lbs.	149	144	155	171	201	227	262

Electrical Data

Line Voltage Data (Volts-Phase-Hz)	**208/230-1-60**	**208/230-1-60**	**208/230-1-60**	**208/230-1-60**	**208/230-1-60**	**208/230-1-60**	**208/230-1-60**
Maximum overcurrent protection (amps)[2]	20	25	30	35	40	45	50
Minimum circuit ampacity[3]	12	17	19	20	24	26	31
Compressor							
Rated load amps	9	12.8	14.1	15.4	17.9	19.6	23.7
Locked rotor amps	48	58.3	73	83.9	112	130	152.5
Condenser Fan Motor							
Full load amps	0.7	0.7	0.7	0.6	0.9	1.2	1
Locked rotor amps	1.2	1.2	1.2	1.5	1.2	2	2.4
Line Voltage Data (Volts-Phase-Hz)	—	—	—	**208/230-3-60**	**208/230-3-60**	**208/230-3-60**	**208/230-3-60**
Maximum overcurrent protection (amps)[2]	—	—	—	20	30	30	35
Minimum circuit ampacity[3]	—	—	—	14	18	19	21
Compressor							
Rated load amps	—	—	—	10.4	13.5	13.7	15.9
Locked rotor amps	—	—	—	73	88	83.1	110
Condenser Fan Motor							
Full load amps	—	—	—	0.6	0.9	1.2	1
Locked rotor amps	—	—	—	1.5	1.2	2	2.3
Line Voltage Data (Volts-Phase-Hz)	—	—	—	**480-3-60**	**480-3-60**	**480-3-60**	**480-3-60**
Maximum overcurrent protection (amps)[2]	—	—	—	TBD	TBD	TBD	TBD
Minimum circuit ampacity[3]	—	—	—	TBD	TBD	TBD	TBD
Compressor							
Rated load amps	—	—	—	TBD	TBD	TBD	TBD
Locked rotor amps	—	—	—	TBD	TBD	TBD	TBD
Condenser Fan Motor							
Full load amps	—	—	—	TBD	TBD	TBD	TBD
Locked rotor amps	—	—	—	TBD	TBD	TBD	TBD

[1]Refrigerant charge sufficient for 15 ft. length of refrigerant lines. For longer line set requirements see the installation instructions for information about set length and additional refrigerant charge required.
[2]HACR type circuit breaker of fuse.
[3]Refer to National Electrical Code manual to determine wire, fuse and disconnect size requirements.

Accessories

Model No.		RP1418	RP1424	RP1430	RP1436	RP1442	RP1448	RP1460
Compressor crankcase heater		44-17402-44	44-17402-44	44-17402-44	44-17402-44	44-17402-45	44-17402-45	Factory Standard
Low ambient control		RXAD-A08	RXAD-A08	RXAD-A08	RXAD-A08	RXAD-A08	RXAD-A08	RXAD-A08
Compressor sound cover		68-23427-26	68-23427-26	68-23427-26	68-23427-26	68-23427-25	68-23427-25	68-23427-25
Compressor hard start kit		SK-A1	SK-A1	SK-A1	SK-A1	SK-A1	SK-A1	SK-A1
Low pressure control*		Factory Standard	Factory Standard	Factory Standard	Factory Standard	Factory Standard	Factory Standard	Factory Standard
High pressure control*		Factory Standard	Factory Standard	Factory Standard	Factory Standard	Factory Standard	Factory Standard	Factory Standard
Liquid Line Solenoid (24 VAC, 50/60 Hz)	Solenoid Valve	200RD2T3TVLC	200RD2T3TVLC	200RD2T3TVLC	200RD2T3TVLC	200RD2T3TVLC	200RD3T3TVLC	200RD3T3TVLC
	Solenoid Coil	61-AMG24V	61-AMG24V	61-AMG24V	61-AMG24V	61-AMG24V	61-AMG24V	61-AMG24V
	Bi-flow kit*	KS30387	KS30387	KS30387	KS30387	KS30387	KS30387	KS30387
Liquid Line Solenoid (120/240 VAC, 50/60 Hz)	Solenoid Valve	200RD2T3TVLC	200RD2T3TVLC	200RD2T3TVLC	200RD2T3TVLC	200RD2T3TVLC	200RD3T3TVLC	200RD3T3TVLC
	Solenoid Coil	61-AMG120/240V	61-AMG120/240V	61-AMG120/240V	61-AMG120/240V	61-AMG120/240V	61-AMG120/240V	61-AMG120/240V
	Bi-flow kit*	KS30387	KS30387	KS30387	KS30387	KS30387	KS30387	KS30387
Classic Top Cap w/Label		91-101123-21	91-101123-21	91-101123-21	91-101123-21	91-101123-21	91-101123-21	91-101123-21

*Bi-flow kits are required when installing a liquid line solenoid on a heat pump.

Weighted Sound Power Level (dBA)

RP14 SOUND POWER LEVEL									
Model	Sound Power Level [dB(A)]	Full Octave Linear Sound Power Level dB - Center Frequency - Hz							Sound Power Level [dB(A)] with Sound Blanket
		125	250	500	1000	2000	4000	6300	8000	
RP1418A	75.2	53.8	60.2	64.3	66	62.5	57.6	54.6	53.5	74.6
RP1424A	75.4	55.9	59.8	64.8	66.1	62.3	57.7	55.6	53	75.2
RP1430A	76.5	60.8	60.5	65.4	66.9	63.9	59.9	55.2	53.1	75.9
RP1436A	74.3	50.5	58	63.5	65.1	61.2	56.1	55.9	53.7	73.2
RP1442A	76.4	51.9	59	64.4	68.7	63.5	57.4	54	53	74.9
RP1448A	77.5	54.5	55.1	64.4	67.3	64.3	58.2	55.8	53.6	75.2
RP1460A	77.2	53.9	56.3	65.7	70.3	65.4	61.2	58.8	55.8	75.4

NOTE: Tested in accordance with AHRI Standard 270-08 (not listed in AHRI)

Thermostats

200-Series *
Programmable

300-Series *
Deluxe
Programmable

400-Series *
Special Applications/
Programmable

500-Series *
Communicating/
Programmable

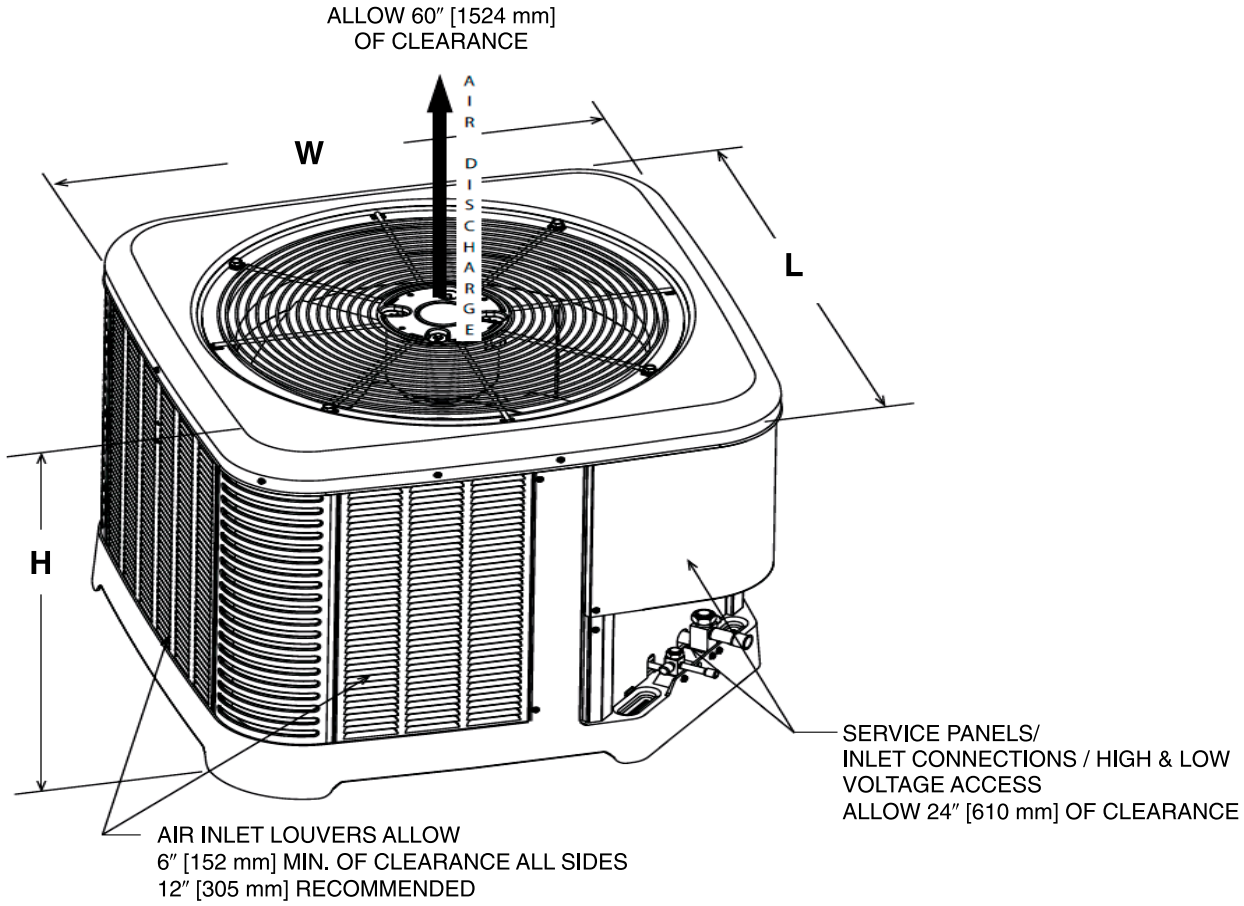
Brand		Descripter (3 Characters)	Series (3 Characters)	System (2 Characters)	Type (2 Characters)
RHC	-	**TST**	**213**	**UN**	**MS**
RHC=Rheem		TST=Thermostat	200=Programmable 300=Deluxe Programmable 400=Special Applications/ Programmable 500=Communicating/ Programmable	GE=Gas/Electric UN=Universal (AC/HP/GE) MD=Modulating Furnace DF=Dual Fuel CM=Communicating	SS=Single-Stage MS=Multi-Stage

** Photos are representative. Actual models may vary.*

For detailed thermostat match-up information, see specification sheet form number T11-001.

Unit Dimensions

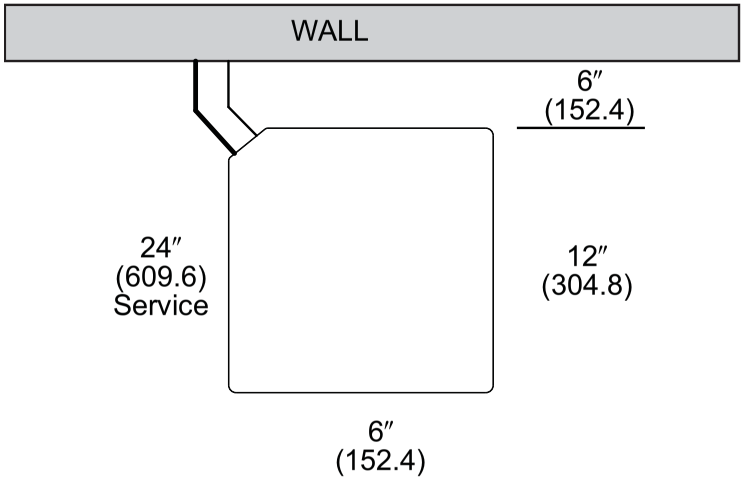
MODEL NUMBER	OPERATING						SHIPPING					
	H (Height)		L (Length)		W (Width)		H (Height)		L (Length)		W (Width)	
	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm
RP1418	25	635	29.75	755	29.75	755	26.75	679	32.38	822	32.38	822
RP1424	25	635	29.75	755	29.75	755	26.75	679	32.38	822	32.38	822
RP1430	25	635	29.75	755	29.75	755	26.75	679	32.38	822	32.38	822
RP1436	27	685	33.75	857	33.75	857	28.75	679	36.38	924	36.38	924
RP1442	27	685	33.75	857	33.75	857	28.75	679	36.38	924	36.38	924
RP1448	35	889	33.75	857	33.75	857	36.75	933	36.38	924	36.38	924
RP1460	39	990	35.75	908	35.75	908	40.75	1035	38.38	975	38.38	975

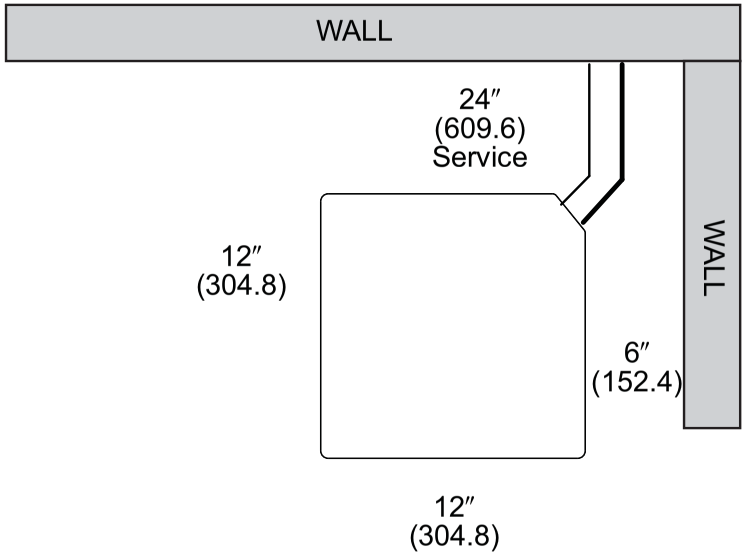


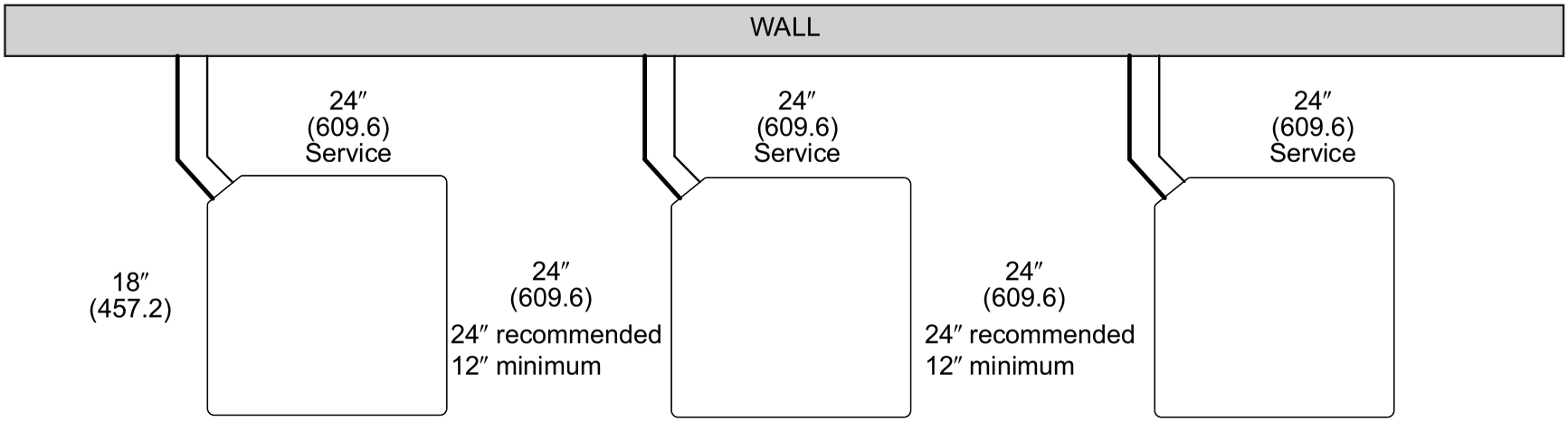
[ ] Designates Metric Conversions

ST-A1226-02-00

CLEARANCES







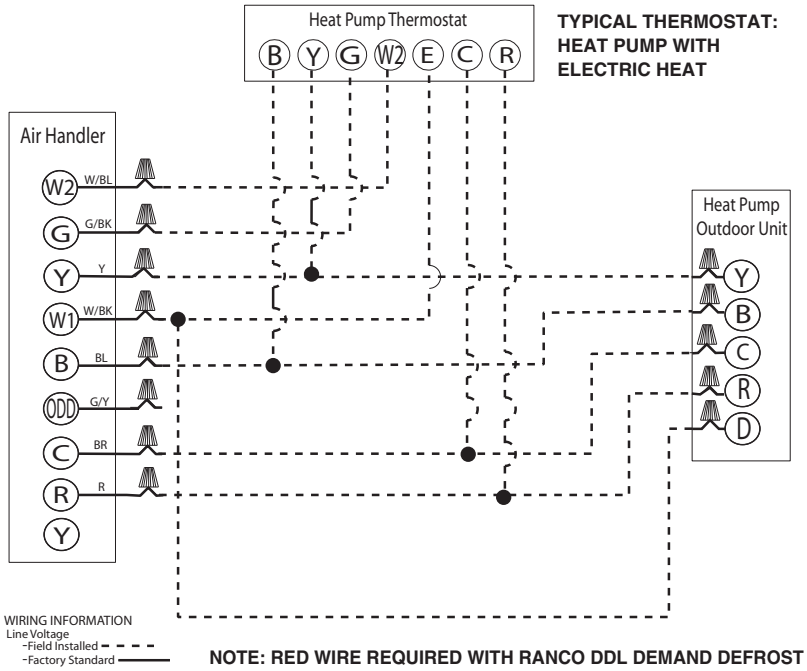
NOTE: NUMBERS IN () = mm

IMPORTANT: When installing multiple units in an alcove, roof well or partially enclosed area, ensure there is adequate ventillation to prevent re-circulation of discharge air.

ST-A1225-01-00

Control Wiring

FIGURE 4
CONTROL WIRING FOR AIR HANDLER



TYPICAL THERMOSTAT: HEAT PUMP WITH ELECTRIC HEAT

NOTES:

1. Jumper "E" to "W2" to transfer control of supplemental heat to 1st stage when the emergency heat switch is on.
2. This wire turns on heat for defrost, omit for most economical operation.
3. Wire with colored tracing stripe.

NOTE: RED WIRE REQUIRED WITH RANCO DDL DEMAND DEFROST CONTROL.

Application Guidelines

1. Intended for outdoor installation with free air inlet and outlet. Outdoor fan external static pressure available is less than 0.01 -in. wc.
2. Minimum outdoor operation air temperature for cooling mode without low-ambient operation accessory is 55°F (12.8°C).
3. Maximum outdoor operating air temperature is 125°F (51.7°C).
4. For reliable operation, unit should be level in all horizontal planes.
5. Use only copper wire for electric connections at unit. Aluminum and clad aluminum are not acceptable for the type of connector provided.
6. Do not apply capillary tube indoor coils to these units.
7. Factory – supplied filter drier must be installed.

Heat Pump Refrigerant Line Size Information

R-410A System Capacity Model	Liquid Line Size Connection Size (Inch I.D.) [mm]	Liquid Line Size (Inch O.D.) [mm]	Liquid Line Selection Chart Elevation (Above or Below) Indoor Coil Total **Equivalent** Length - Feet [m]											
			25 [7.62]	50 [15.24]	75 [22.86]	100 [30.48]	125 [45.72]	150 [45.72]	175 [53.34]	200 [60.96]	225 [68.58]	250 [76.20]	275 [83.82]	300 [91.44]
			Maximum Vertical Separation – Feet [m]											
18	3/8" [9.53]	1/4 [6.35]	25 [7.62]	50 [15.24]	60 [18.29]	50 [15.24]	35 [10.67]	20 [6.1]	**N/R**	**N/R**	**N/R**	**N/R**	**N/R**	**N/R**
		5/16 [7.94]	25 [7.62]	50 [15.24]	75 [22.86]	90 [27.43]	85 [25.91]	85 [25.91]	80 [24.38]	75 [22.86]	70 [21.34]	70 [21.34]	65 [19.81]	60 [18.29]
		3/8 [9.53]	25 [7.62]	50 [15.24]	75 [22.86]	100 [30.48]	100 [30.48]	100 [30.48]	95 [28.96]	95 [28.96]	95 [28.96]	90 [27.43]	90 [27.43]	90 [27.43]
		7/16 [11.12]	25 [7.62]	50 [15.24]	75 [22.86]	100 [30.48]	105 [32]	100 [30.48]	100 [30.48]	100 [30.48]	100 [30.48]	100 [30.48]	100 [30.48]	100 [30.48]
		1/2 [12.71]	25 [7.62]	50 [15.24]	75 [22.86]	100 [30.48]	105 [32]	105 [32]	105 [32]	105 [32]	105 [32]	105 [32]	100 [30.48]	100 [30.48]
24	3/8" [9.53]	1/4 [6.35]	25 [7.62]	50 [15.24]	30 [9.14]	10 [3.05]	**N/R**	**N/R**	**N/R**	**N/R**	**N/R**	**N/R**	**N/R**	**N/R**
		5/16 [7.94]	25 [7.62]	50 [15.24]	75 [22.86]	80 [24.38]	75 [22.86]	70 [21.34]	60 [18.29]	55 [16.76]	50 [15.24]	45 [13.72]	35 [10.67]	30 [9.14]
		3/8 [9.53]	25 [7.62]	50 [15.24]	75 [22.86]	95 [28.96]	95 [28.96]	95 [28.96]	90 [27.43]	90 [27.43]	85 [25.91]	85 [25.91]	80 [24.38]	80 [24.38]
		7/16 [11.12]	25 [7.62]	50 [15.24]	75 [22.86]	100 [30.48]	100 [30.48]	100 [30.48]	100 [30.48]	100 [30.48]	100 [30.48]	95 [28.96]	95 [28.96]	95 [28.96]
		1/2 [12.71]	25 [7.62]	50 [15.24]	75 [22.86]	100 [30.48]	100 [30.48]	100 [30.48]	100 [30.48]	100 [30.48]	100 [30.48]	100 [30.48]	100 [30.48]	100 [30.48]
30	3/8" [9.53]	1/4 [6.35]	25 [7.62]	30 [9.14]	**N/R**	**N/R**	**N/R**	**N/R**	**N/R**	**N/R**	**N/R**	**N/R**	**N/R**	**N/R**
		5/16 [7.94]	25 [7.62]	50 [15.24]	75 [22.86]	65 [19.81]	55 [16.76]	50 [15.24]	40 [12.19]	30 [9.14]	25 [7.62]	15 [4.57]	5 [1.52]	**N/R**
		3/8 [9.53]	25 [7.62]	50 [15.24]	75 [22.86]	90 [27.43]	85 [25.91]	80 [24.38]	80 [24.38]	75 [22.86]	75 [22.86]	70 [21.34]	65 [19.81]	65 [19.81]
		7/16 [11.12]	25 [7.62]	50 [15.24]	75 [22.86]	95 [28.96]	95 [28.96]	90 [27.43]	90 [27.43]	90 [27.43]	90 [27.43]	85 [25.91]	85 [25.91]	85 [25.91]
		1/2 [12.71]	25 [7.62]	50 [15.24]	75 [22.86]	95 [28.96]	95 [28.96]	95 [28.96]	95 [28.96]	95 [28.96]	95 [28.96]	95 [28.96]	95 [28.96]	90 [27.43]
36	3/8" [9.53]	1/4 [6.35]	25 [7.62]	**N/R**	**N/R**	**N/R**	**N/R**	**N/R**	**N/R**	**N/R**	**N/R**	**N/R**	**N/R**	**N/R**
		5/16 [7.94]	25 [7.62]	50 [15.24]	55 [16.76]	45 [13.72]	30 [9.14]	20 [6.1]	**N/R**	**N/R**	**N/R**	**N/R**	**N/R**	**N/R**
		3/8 [9.53]	25 [7.62]	50 [15.24]	75 [22.86]	75 [22.86]	70 [21.34]	70 [21.34]	65 [19.81]	60 [18.29]	55 [16.76]	50 [15.24]	45 [13.72]	40 [12.19]
		7/16 [11.12]	25 [7.62]	50 [15.24]	75 [22.86]	85 [25.91]	85 [25.91]	85 [25.91]	80 [24.38]	80 [24.38]	80 [24.38]	75 [22.86]	75 [22.86]	70 [21.34]
		1/2 [12.71]	25 [7.62]	50 [15.24]	75 [22.86]	90 [27.43]	90 [27.43]	90 [27.43]	90 [27.43]	85 [25.91]	85 [25.91]	85 [25.91]	85 [25.91]	85 [25.91]
42	3/8" [9.53]	1/4 [6.35]	5 [1.52]	**N/R**	**N/R**	**N/R**	**N/R**	**N/R**	**N/R**	**N/R**	**N/R**	**N/R**	**N/R**	**N/R**
		5/16 [7.94]	25 [7.62]	40 [12.19]	25 [7.62]	5 [1.52]	**N/R**	**N/R**	**N/R**	**N/R**	**N/R**	**N/R**	**N/R**	**N/R**
		3/8 [9.53]	25 [7.62]	50 [15.24]	60 [18.29]	50 [15.24]	45 [13.72]	40 [12.19]	35 [10.67]	30 [9.14]	20 [6.1]	15 [4.57]	10 [3.05]	**N/R**
		7/16 [11.12]	25 [7.62]	50 [15.24]	70 [21.34]	65 [19.81]	65 [19.81]	60 [18.29]	60 [18.29]	55 [16.76]	55 [16.76]	50 [15.24]	50 [15.24]	45 [13.72]
		1/2 [12.71]	25 [7.62]	50 [15.24]	70 [21.34]	70 [21.34]	70 [21.34]	70 [21.34]	65 [19.81]	65 [19.81]	65 [19.81]	65 [19.81]	60 [18.29]	60 [18.29]
48	3/8" [9.53]	1/4 [6.35]	**N/R**	**N/R**	**N/R**	**N/R**	**N/R**	**N/R**	**N/R**	**N/R**	**N/R**	**N/R**	**N/R**	**N/R**
		5/16 [7.94]	25 [7.62]	35 [10.67]	10 [3.05]	**N/R**	**N/R**	**N/R**	**N/R**	**N/R**	**N/R**	**N/R**	**N/R**	**N/R**
		3/8 [9.53]	25 [7.62]	50 [15.24]	55 [16.76]	45 [13.72]	40 [12.19]	30 [9.14]	25 [7.62]	15 [4.57]	10 [3.05]	**N/R**	**N/R**	**N/R**
		7/16 [11.12]	25 [7.62]	50 [15.24]	70 [21.34]	65 [19.81]	60 [18.29]	60 [18.29]	55 [16.76]	50 [15.24]	50 [15.24]	45 [13.72]	45 [13.72]	40 [12.19]
		1/2 [12.71]	25 [7.62]	50 [15.24].	75 [22.86]	70 [21.34]	70 [21.34]	70 [21.34]	65 [19.81]	65 [19.81]	65 [19.81]	65 [19.81]	60 [18.29]	60 [18.29]
60	3/8" [9.53]	1/4 [6.35]	**N/R**	**N/R**	**N/R**	**N/R**	**N/R**	**N/R**	**N/R**	**N/R**	**N/R**	**N/R**	**N/R**	**N/R**
		5/16 [7.94]	25 [7.62]	10 [3.05]	**N/R**	**N/R**	**N/R**	**N/R**	**N/R**	**N/R**	**N/R**	**N/R**	**N/R**	**N/R**
		3/8 [9.53]	25 [7.62].	50 [15.24]	40 [12.19]	30 [9.14]	20 [6.1]	10 [3.05]	**N/R**	**N/R**	**N/R**	**N/R**	**N/R**	**N/R**
		7/16 [11.12]	25 [7.62]	50 [15.24]	60 [18.29]	55 [16.76]	50 [15.24]	45 [13.72]	40 [12.19]	40 [12.19]	35 [10.67]	30 [9.14]	25 [7.62]	20 [6.1]
		1/2 [12.71]	25 [7.62]	50 [15.24]	65 [19.81]	65 [19.81]	60 [18.29]	60 [18.29]	60 [18.29]	55 [16.76]	55 [16.76]	50 [15.24]	50 [15.24]	50 [15.24]

NOTES:

[ ] Designates Metric Conversions

N/R = Application not recommended.

Grey =This application is acceptable, but the long line guidelines must be followed. Reference Long Line Set section in the I&O

Heat Pump Refrigerant Line Size Information (con't.)

R-410A System Capacity Model	Vapor Line Connection Size (Inch I.D.) [mm]	Vapor Line Size (Inch O.D.) [mm]	Vapor Line Selection Chart Capacity Multiplier Table Total **Equivalent** Length - Feet [m]											
			25 [7.62]	50 [15.24]	75 [22.86]	100 [30.48]	125 [45.72]	150 [45.72]	175 [53.34]	200 [60.96]	225 [68.58]	250 [76.20]	275 [83.82]	300 [91.44]
18	3/4" [19.06]	5/8 [15.88]	1.00	0.99	0.99	0.99	0.99	0.98	0.98	0.98	0.97	0.97	0.97	0.97
		3/4 [19.05]	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
		7/8 [22.23]	**N/R**	**N/R**	**N/R**	**N/R**	**N/R**	**N/R**	**N/R**	**N/R**	**N/R**	**N/R**	**N/R**	**N/R**
		1 [25.4]	**N/R**	**N/R**	**N/R**	**N/R**	**N/R**	**N/R**	**N/R**	**N/R**	**N/R**	**N/R**	**N/R**	**N/R**
		1-1/8 [28.58]	**N/R**	**N/R**	**N/R**	**N/R**	**N/R**	**N/R**	**N/R**	**N/R**	**N/R**	**N/R**	**N/R**	**N/R**
24	3/4" [19.06]	5/8 [15.88]	0.99	0.99	0.98	0.98	0.97	0.97	0.96	0.96	0.96	0.95	0.95	0.94
		3/4 [19.05]	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.99	0.99	0.99	0.99
		7/8 [22.23]	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.01	1.01	1.01	1.01	1.01
		1 [25.4]	**N/R**	**N/R**	**N/R**	**N/R**	**N/R**	**N/R**	**N/R**	**N/R**	**N/R**	**N/R**	**N/R**	**N/R**
		1-1/8 [28.58]	**N/R**	**N/R**	**N/R**	**N/R**	**N/R**	**N/R**	**N/R**	**N/R**	**N/R**	**N/R**	**N/R**	**N/R**
30	3/4" [19.06]	5/8 [15.88]	0.99	0.98	0.97	0.96	0.96	0.94	0.93	0.93	0.93	0.91	0.91	0.9
		3/4 [19.05]	1.00	1.00	1.00	0.99	0.98	0.98	0.98	0.98	0.98	0.97	0.96	0.96
		7/8 [22.23]	1.00	1.01	1.01	1.00	1.00	1.01	1.01	1.00	1.00	1.00	1.00	0.99
		1 [25.4]	1.00	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.00
		1-1/8 [28.58]	**N/R**	**N/R**	**N/R**	**N/R**	**N/R**	**N/R**	**N/R**	**N/R**	**N/R**	**N/R**	**N/R**	**N/R**
36	3/4" [19.06]	5/8 [15.88]	0.99	0.97	0.95	0.93	0.92	0.91	0.9	0.9	0.9	0.87	0.87	0.86
		3/4 [19.05]	1.00	0.99	0.98	0.98	0.97	0.97	0.97	0.96	0.96	0.95	0.94	0.94
		7/8 [22.23]	1.00	1.00	1.00	1.00	0.99	0.99	0.99	0.99	0.99	0.98	0.98	0.98
		1 [25.4]	1.01	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
		1-1/8 [28.58]	**N/R**	**N/R**	**N/R**	**N/R**	**N/R**	**N/R**	**N/R**	**N/R**	**N/R**	**N/R**	**N/R**	**N/R**
42	7/8" [22.23]	5/8 [15.88]	0.98	0.97	0.95	0.94	0.92	0.91	0.89	0.88	0.87	0.86	0.85	**N/R**
		3/4 [19.05]	0.99	0.98	0.98	0.98	0.97	0.97	0.96	0.96	0.95	0.95	0.94	**N/R**
		7/8 [22.23]	1.00	1.00	1.00	0.99	1.00	0.99	0.99	0.99	0.98	0.98	0.98	**N/R**
		1 [25.4]	1.01	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.99	0.99	1.00	**N/R**
		1-1/8 [28.58]	1.01	1.01	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.01	1.01	**N/R**
48	7/8" [22.23]	5/8 [15.88]	0.97	0.95	0.94	0.92	0.89	0.88	0.86	0.86	0.84	**N/R**	**N/R**	**N/R**
		3/4 [19.05]	0.99	0.99	0.98	0.97	0.96	0.96	0.95	0.94	0.93	**N/R**	**N/R**	**N/R**
		7/8 [22.23]	1.00	0.99	0.99	0.99	0.98	0.98	0.98	0.97	0.97	**N/R**	**N/R**	**N/R**
		1 [25.4]	1.00	1.00	1.00	0.99	0.99	1.00	0.99	1.00	0.99	**N/R**	**N/R**	**N/R**
		1-1/8 [28.58]	**N/R**	**N/R**	**N/R**	**N/R**	**N/R**	**N/R**	**N/R**	**N/R**	**N/R**	**N/R**	**N/R**	**N/R**
60	7/8" [22.23]	5/8 [15.88]	0.98	0.94	0.92	0.9	0.88	0.85	**N/R**	**N/R**	**N/R**	**N/R**	**N/R**	**N/R**
		3/4 [19.05]	1.00	0.99	0.98	0.96	0.95	0.94	**N/R**	**N/R**	**N/R**	**N/R**	**N/R**	**N/R**
		7/8 [22.23]	1.00	1.00	1.00	0.99	0.99	0.98	**N/R**	**N/R**	**N/R**	**N/R**	**N/R**	**N/R**
		1 [25.4]	1.01	1.00	1.01	1.01	1.00	1.00	**N/R**	**N/R**	**N/R**	**N/R**	**N/R**	**N/R**
		1-1/8 [28.58]	**N/R**	**N/R**	**N/R**	**N/R**	**N/R**	**N/R**	**N/R**	**N/R**	**N/R**	**N/R**	**N/R**	**N/R**

NOTES:
N/R = Application not recommended.
All calculations assume a 3/8" liquid line

[ ] Designates Metric Conversions

Performance Data @ AHRI Standard Conditions – Heat Pump

High Sales Volume Tested Combination (HSVTC)

Outdoor Unit	Air Handler	Total Capacity BTU/H [kW]	Net Sensible BTU/H [kW]	Net Latent BTU/H [kW]	SEER	EER	Indoor CFM [L/s]	47 Degree Heating Capacity BTU/H [kW]	47 Degree COP	17 Degree Heating Capacity BTU/H [kW]	47 Degree COP	Region IV HSPF	AHRI#
RP1418AJ1	RH1T2417STAN	18800 [5.5]	13700 [4.0]	5100 [1.5]	14	11.5	575 [271.4]	17000 [5.0]	3.6	10200 [3.0]	2.4	8.2	7489173
RP1424AJ1	RH1T2417STAN	23800 [7.0]	17600 [5.2]	6200 [1.8]	14	11.5	825 [389.4]	22800 [6.7]	3.6	12600 [3.7]	2.34	8.2	7489174
RP1430AJ1	RH1T3617STAN	28800 [8.4]	22200 [6.5]	6600 [1.9]	14	11.5	1050 [495.5]	27400 [8.0]	3.5	16600 [4.9]	2.34	8.2	7489175
RP1436AC1	RH1T3617STAN	35200 [10.3]	26200 [7.7]	9000 [2.6]	14	11.5	1200 [566.3]	34800 [10.2]	3.66	23200 [6.8]	2.54	8.2	7489177
RP1436AJ1	RH1T3617STAN	35200 [10.3]	26200 [7.7]	9000 [2.6]	14	11.5	1200 [566.3]	34800 [10.2]	3.66	23200 [6.8]	2.54	8.2	7489178
RP1442AC1	RH1T4821STAN	42500 [12.5]	32400 [9.5]	10100 [3.0]	14	11.5	1400 [660.7]	39000 [11.4]	3.6	24800 [7.3]	2.5	8.2	7489179
RP1442AJ1	RH1T4821STAN	42500 [12.5]	32400 [9.5]	10100 [3.0]	14	11.5	1400 [660.7]	39000 [11.4]	3.6	24800 [7.3]	2.5	8.2	7489180
RP1448AC1	RH1T4821STAN	48000 [14.1]	35700 [10.5]	12300 [3.6]	14	11.5	1525 [719.7]	46000 [13.5]	3.6	29800 [8.7]	2.6	8.2	7489181
RP1448AJ1	RH1T4821STAN	48000 [14.1]	35700 [10.5]	12300 [3.6]	14	11.5	1525 [719.7]	46000 [13.5]	3.6	29800 [8.7]	2.6	8.2	7489182
RP1460AC1	RH1T6024STAN	56500 [16.6]	40800 [12.0]	15700 [4.6]	14	11.5	1800 [849.5]	57000 [16.7]	3.8	35800 [10.5]	2.66	8.2	7489183
RP1460AJ1	RH1T6024STAN	56500 [16.6]	40800 [12.0]	15700 [4.6]	14	11.5	1800 [849.5]	57000 [16.7]	3.8	35800 [10.5]	2.66	8.2	7489184

RGPT: Single Stage Upflow Constant Torque 80% Furnace Ratings

Outdoor Unit	Furnace	Indoor Coil	Total Capacity BTU/H [kW]	Net Sensible BTU/H [kW]	Net Latent BTU/H [kW]	SEER	EER	Indoor CFM [L/s]	47 Degree Heating Capacity BTU/H [kW]	47 Degree COP	17 Degree Heating Capacity BTU/H [kW]	47 Degree COP	Region IV HSPF	AHRI#
RP1418AJ1	RGPT-05?BMK?	RCF2417STAM	19000 [5.6]	14000 [4.1]	5000 [1.5]	14	11.5	650 [306.8]	17100 [5.0]	3.54	10400 [3.0]	2.4	8.2	7492684
RP1418AJ1	RGPT-07?AMK?	RCF2417STAM	18900 [5.5]	13800 [4.0]	5100 [1.5]	14	11.5	625 [295.0]	17100 [5.0]	3.6	10400 [3.0]	2.4	8.2	7492685
RP1424AJ1	RGPT-07?AMK?	RCF2417STAM	24000 [7.0]	17900 [5.2]	6100 [1.8]	14	11.5	875 [413.0]	22800 [6.7]	3.54	12800 [3.8]	2.34	8.2	7492694
RP1430AJ1	RGPT-07?BRQ?	RCF3621STAM	28600 [8.4]	21700 [6.4]	6900 [2.0]	14	11.5	1000 [471.9]	27400 [8.0]	3.54	16400 [4.8]	2.34	8.2	7492708
RP1430AJ1	RGPT-10?BRM?	RCF3621STAM	28600 [8.4]	21700 [6.4]	6900 [2.0]	14	11.5	1000 [471.9]	27400 [8.0]	3.54	16500 [4.8]	2.34	8.2	7492709
RP1436AC1	RGPT-07?BRQ?	RCF3621STAM	35000 [10.3]	25900 [7.6]	9100 [2.7]	14	11.5	1175 [554.5]	34800 [10.2]	3.7	22400 [6.6]	2.54	8.2	7492717
RP1436AC1	RGPT-10?BRM?	RCF3621STAM	35000 [10.3]	25900 [7.6]	9100 [2.7]	14	11.5	1175 [554.5]	34800 [10.2]	3.7	22400 [6.6]	2.54	8.2	7492718
RP1436AJ1	RGPT-07?BRQ?	RCF3621STAM	35000 [10.3]	25900 [7.6]	9100 [2.7]	14	11.5	1175 [554.5]	34800 [10.2]	3.7	22400 [6.6]	2.54	8.2	7492724
RP1436AJ1	RGPT-10?BRM?	RCF3621STAM	35000 [10.3]	25900 [7.6]	9100 [2.7]	14	11.5	1175 [554.5]	34800 [10.2]	3.7	22400 [6.6]	2.54	8.2	7492725

[ ] Designates Metric Conversions

Performance Data @ AHRI Standard Conditions – Heat Pump (con't.)

RGPE: Two-Stage, Variable Speed 80% (upflow/horizontal) furnace with Comfort Control System Ratings

Outdoor Unit	Furnace	Indoor Coil	Total Capacity BTU/H [kW]	Net Sensible BTU/H [kW]	Net Latent BTU/H [kW]	SEER	EER	Indoor CFM [L/s]	47 Degree Heating Capacity BTU/H [kW]	47 Degree COP	17 Degree Heating Capacity BTU/H [kW]	47 Degree COP	Region IV HSPF	AHRI#
RP1418AJ1	RGPE-05?BMK?	RCF2417STAM	18800 [5.5]	13600 [4.0]	5200 [1.5]	14	11.5	575 [271.4]	17100 [5.0]	3.6	10200 [3.0]	2.34	8.2	7492682
RP1418AJ1	RGPE-07?AMK?	RCF2417STAM	19000 [5.6]	13900 [4.1]	5100 [1.5]	14	11.5	625 [295.0]	17000 [5.0]	3.6	10300 [3.0]	2.4	8.2	7492683
RP1424AJ1	RGPE-05?BMK?	RCF2417STAM	23400 [6.9]	17000 [5.0]	6400 [1.9]	14	11.5	750 [354.0]	22400 [6.6]	3.5	12400 [3.6]	2.26	8.2	7492692
RP1424AJ1	RGPE-07?AMK?	RCF2417STAM	23800 [7.0]	17600 [5.2]	6200 [1.8]	14	11.5	825 [389.4]	22800 [6.7]	3.6	12700 [3.7]	2.34	8.2	7492693
RP1430AJ1	RGPE-07?BRQ?	RCF3621STAM	28800 [8.4]	22100 [6.5]	6700 [2.0]	14	11.5	1050 [495.5]	27400 [8.0]	3.54	16500 [4.8]	2.34	8.2	7492706
RP1430AJ1	RGPE-10?BRM?	RCF3621STAM	28800 [8.4]	22200 [6.5]	6600 [1.9]	14	11.5	1075 [507.3]	27400 [8.0]	3.54	16500 [4.8]	2.34	8.2	7492707
RP1436AC1	RGPE-07?BRQ?	RCF3621STAM	35200 [10.3]	26200 [7.7]	9000 [2.6]	14	11.5	1225 [578.1]	34800 [10.2]	3.7	22400 [6.6]	2.54	8.2	7492715
RP1436AC1	RGPE-10?BRM?	RCF3621STAM	35200 [10.3]	26200 [7.7]	9000 [2.6]	14	11.5	1225 [578.1]	34800 [10.2]	3.7	22400 [6.6]	2.54	8.2	7492716
RP1436AJ1	RGPE-07?BRQ?	RCF3621STAM	35200 [10.3]	26200 [7.7]	9000 [2.6]	14	11.5	1225 [578.1]	34800 [10.2]	3.7	22400 [6.6]	2.54	8.2	7492722
RP1436AJ1	RGPE-10?BRM?	RCF3621STAM	35200 [10.3]	26200 [7.7]	9000 [2.6]	14	11.5	1225 [578.1]	34800 [10.2]	3.7	22400 [6.6]	2.54	8.2	7492723

R95T: 95% AFUE single-stage Constant Torque Multipoise Gas Furnace Ratings

Outdoor Unit	Furnace	Indoor Coil	Total Capacity BTU/H [kW]	Net Sensible BTU/H [kW]	Net Latent BTU/H [kW]	SEER	EER	Indoor CFM [L/s]	47 Degree Heating Capacity BTU/H [kW]	47 Degree COP	17 Degree Heating Capacity BTU/H [kW]	47 Degree COP	Region IV HSPF	AHRI#
RP1418AJ1	R95TA0401317MSA	RCF2417STAM	19000 [5.6]	14000 [4.1]	5000 [1.5]	14	11.5	650 [306.8]	17200 [5.0]	3.54	10400 [3.0]	2.4	8.2	7492676
RP1430AJ1	R95TA0401317MSA	RCF3621STAM	28200 [8.3]	21100 [6.2]	7100 [2.1]	14	11.5	950 [448.4]	27000 [7.9]	3.46	16300 [4.8]	2.3	8.2	7492702

R96V: 96% AFUE 2-stage Variable Speed Multipoise Gas Furnace Ratings

Outdoor Unit	Furnace	Indoor Coil	Total Capacity BTU/H [kW]	Net Sensible BTU/H [kW]	Net Latent BTU/H [kW]	SEER	EER	Indoor CFM [L/s]	47 Degree Heating Capacity BTU/H [kW]	47 Degree COP	17 Degree Heating Capacity BTU/H [kW]	47 Degree COP	Region IV HSPF	AHRI#
RP1418AJ1	R96VA0702317MSA	RCF2417STAM	19000 [5.6]	14000 [4.1]	5000 [1.5]	14	11.5	650 [306.8]	17100 [5.0]	3.54	10400 [3.0]	2.4	8.2	7492677
RP1430AJ1	R96VA1002521MSA	RCF3621STAM	28800 [8.4]	22100 [6.5]	6700 [2.0]	14	11.45	1050 [495.5]	27400 [8.0]	3.5	16500 [4.8]	2.3	8.2	7492703

RGFG: 95 Plus Communicating Modulating Upflow Gas Furnace equipped with Confront Control, ECM Ratings

Outdoor Unit	Furnace	Indoor Coil	Total Capacity BTU/H [kW]	Net Sensible BTU/H [kW]	Net Latent BTU/H [kW]	SEER	EER	Indoor CFM [L/s]	47 Degree Heating Capacity BTU/H [kW]	47 Degree COP	17 Degree Heating Capacity BTU/H [kW]	47 Degree COP	Region IV HSPF	AHRI#
RP1418AJ1	RGFG-06?MCK?	RCF2417STAM	18700 [5.5]	13500 [4.0]	5200 [1.5]	14	11.5	575 [271.4]	17100 [5.0]	3.6	10200 [3.0]	2.34	8.2	7492678
RP1418AJ1	RGFG-07?MCK?	RCF2417STAM	19000 [5.6]	14000 [4.1]	5000 [1.5]	14	11.5	650 [306.8]	17100 [5.0]	3.54	10400 [3.0]	2.4	8.2	7492679

[ ] Designates Metric Conversions

Performance Data @ AHRI Standard Conditions – Heat Pump (con't.)

RGJF: 90 Plus Communicating Modulating Horizontal Gas Furnace equipped with Comfort Control, ECM Ratings

Outdoor Unit	Furnace	Indoor Coil	Total Capacity BTU/H [kW]	Net Sensible BTU/H [kW]	Net Latent BTU/H [kW]	SEER	EER	Indoor CFM [L/s]	47 Degree Heating Capacity BTU/H [kW]	47 Degree COP	17 Degree Heating Capacity BTU/H [kW]	47 Degree COP	Region IV HSPF	AHRI#
RP1418AJ1	RGJF-06?MCK?	RCF2417STAM	18900 [5.5]	13800 [4.0]	5100 [1.5]	14	11.5	625 [295.0]	17100 [5.0]	3.6	10400 [3.0]	2.4	8.2	7492680
RP1418AJ1	RGJF-07?MCK?	RCF2417STAM	18800 [5.5]	13600 [4.0]	5200 [1.5]	14	11.5	575 [271.4]	17000 [5.0]	3.6	10200 [3.0]	2.34	8.2	7492681
RP1424AJ1	RGJF-06?MCK?	RCF2417STAM	23800 [7.0]	17600 [5.2]	6200 [1.8]	14	11.5	825 [389.4]	22800 [6.7]	3.6	12700 [3.7]	2.34	8.2	7492690
RP1424AJ1	RGJF-07?MCK?	RCF2417STAM	23400 [6.9]	17000 [5.0]	6400 [1.9]	14	11.5	750 [354.0]	22400 [6.6]	3.5	12400 [3.6]	2.26	8.2	7492691
RP1430AJ1	RGJF-09?ZCM?	RCF3621STAM	28400 [8.3]	21500 [6.3]	6900 [2.0]	14	11.45	1000 [471.9]	27000 [7.9]	3.46	16300 [4.8]	2.3	8.2	7492704
RP1430AJ1	RGJF-10?ZCM?	RCF3621STAM	28400 [8.3]	21500 [6.3]	6900 [2.0]	14	11.4	1000 [471.9]	27000 [7.9]	3.46	16300 [4.8]	2.3	8.2	7492705

ROCA Oil Furnace Ratings

Outdoor Unit	Furnace	Indoor Coil	Total Capacity BTU/H [kW]	Net Sensible BTU/H [kW]	Net Latent BTU/H [kW]	SEER	EER	Indoor CFM [L/s]	47 Degree Heating Capacity BTU/H [kW]	47 Degree COP	17 Degree Heating Capacity BTU/H [kW]	47 Degree COP	Region IV HSPF	AHRI#
RP1418AJ1	ROCA-070E03	RCF2417STAM	18800 [5.5]	13700 [4.0]	5100 [1.5]	14	11.5	600 [283.2]	17000 [5.0]	3.6	10300 [3.0]	2.4	8.2	7492686
RP1418AJ1	ROCA-070E04	RCF2417STAM	18800 [5.5]	13700 [4.0]	5100 [1.5]	14	11.5	600 [283.2]	17000 [5.0]	3.6	10300 [3.0]	2.4	8.2	7492687
RP1424AJ1	ROCA-070E03	RCF2417STAM	23800 [7.0]	17500 [5.1]	6300 [1.8]	14	11.5	800 [377.6]	22800 [6.7]	3.6	12500 [3.7]	2.34	8.2	7492695
RP1424AJ1	ROCA-070E04	RCF2417STAM	23800 [7.0]	17500 [5.1]	6300 [1.8]	14	11.5	800 [377.6]	22800 [6.7]	3.6	12500 [3.7]	2.34	8.2	7492696
RP1430AJ1	ROCA-070E03	RCF3621STAM	28400 [8.3]	21500 [6.3]	6900 [2.0]	14	11.45	1000 [471.9]	27000 [7.9]	3.46	16300 [4.8]	2.3	8.2	7492710
RP1430AJ1	ROCA-070E04	RCF3621STAM	28400 [8.3]	21500 [6.3]	6900 [2.0]	14	11.45	1000 [471.9]	27000 [7.9]	3.46	16300 [4.8]	2.3	8.2	7492711

ROLA Oil Furnace Ratings

Outdoor Unit	Furnace	Indoor Coil	Total Capacity BTU/H [kW]	Net Sensible BTU/H [kW]	Net Latent BTU/H [kW]	SEER	EER	Indoor CFM [L/s]	47 Degree Heating Capacity BTU/H [kW]	47 Degree COP	17 Degree Heating Capacity BTU/H [kW]	47 Degree COP	Region IV HSPF	AHRI#
RP1418AJ1	ROLA-070E03	RCF2417STAM	18700 [5.5]	13600 [4.0]	5100 [1.5]	14	11.5	600 [283.2]	17100 [5.0]	3.6	10400 [3.0]	2.4	8.2	7492688
RP1424AJ1	ROLA-070E03	RCF2417STAM	24200 [7.1]	18200 [5.3]	6000 [1.8]	14	11.5	900 [424.8]	22800 [6.7]	3.54	12700 [3.7]	2.34	8.2	7492697
RP1424AJ1	ROLA-070E04	RCF2417STAM	24200 [7.1]	18200 [5.3]	6000 [1.8]	14	11.5	900 [424.8]	22800 [6.7]	3.54	12700 [3.7]	2.34	8.2	7492698
RP1430AJ1	ROLA-070E03	RCF3617STAM	28400 [8.3]	21400 [6.3]	7000 [2.1]	14	11.45	975 [460.1]	26800 [7.9]	3.4	16200 [4.7]	2.26	8.2	7492700
		RCF3621STAM	28400 [8.3]	21400 [6.3]	7000 [2.1]	14	11.5	975 [460.1]	26800 [7.9]	3.46	16100 [4.7]	2.3	8.2	7492712
RP1430AJ1	ROLA-070E04	RCF3617STAM	28400 [8.3]	21400 [6.3]	7000 [2.1]	14	11.45	975 [460.1]	26800 [7.9]	3.4	16200 [4.7]	2.26	8.2	7492701
		RCF3621STAM	28600 [8.4]	21800 [6.4]	6800 [2.0]	14	11.5	1025 [483.7]	27200 [8.0]	3.5	16400 [4.8]	2.3	8.2	7492713
RP1430AJ1	ROLA-115E05	RCF3621STAM	28800 [8.4]	22100 [6.5]	6700 [2.0]	14	11.5	1050 [495.5]	27400 [8.0]	3.5	16500 [4.8]	2.34	8.2	7492714
RP1436AC1	ROLA-070E03	RCF3621STAM	35000 [10.3]	25900 [7.6]	9100 [2.7]	14	11.5	1175 [554.5]	34600 [10.1]	3.66	22200 [6.5]	2.54	8.2	7492719
RP1436AC1	ROLA-070E04	RCF3621STAM	35000 [10.3]	25900 [7.6]	9100 [2.7]	14	11.5	1175 [554.5]	34600 [10.1]	3.66	22200 [6.5]	2.54	8.2	7492720
RP1436AC1	ROLA-115E05	RCF3621STAM	35200 [10.3]	26200 [7.7]	9000 [2.6]	14	11.5	1200 [566.3]	34800 [10.2]	3.7	22400 [6.6]	2.54	8.2	7492721
RP1436AJ1	ROLA-070E03	RCF3621STAM	35000 [10.3]	25900 [7.6]	9100 [2.7]	14	11.5	1175 [554.5]	34600 [10.1]	3.66	22200 [6.5]	2.54	8.2	7492726
RP1436AJ1	ROLA-070E04	RCF3621STAM	35000 [10.3]	25900 [7.6]	9100 [2.7]	14	11.5	1175 [554.5]	34600 [10.1]	3.66	22200 [6.5]	2.54	8.2	7492727
RP1436AJ1	ROLA-115E05	RCF3621STAM	35200 [10.3]	26200 [7.7]	9000 [2.6]	14	11.5	1200 [566.3]	34800 [10.2]	3.7	22400 [6.6]	2.54	8.2	7492728

[ ] Designates Metric Conversions

Performance Data @ AHRI Standard Conditions – Heat Pump (con't.)

Air Handler Ratings													
Outdoor Unit	Air Handler	Total Capacity BTU/H [kW]	Net Sensible BTU/H [kW]	Net Latent BTU/H [kW]	SEER	EER	Indoor CFM [L/s]	47 Degree Heating Capacity BTU/H [kW]	47 Degree COP	17 Degree Heating Capacity BTU/H [kW]	47 Degree COP	Region IV HSPF	AHRI#
RP1418AJ1	RH1V2417STAN	19100 [5.6]	14100 [4.1]	5000 [1.5]	14	11.5	650 [306.8]	17000 [5.0]	3.6	10300 [3.0]	2.4	8.2	7492689
	RH1V2417STAN	23800 [7.0]	17600 [5.2]	6200 [1.8]	14	11.5	850 [401.2]	22800 [6.7]	3.6	12600 [3.7]	2.34	8.2	7492699
	RH1V3617STAN	28600 [8.4]	21800 [6.4]	6800 [2.0]	14	11.5	1025 [483.7]	27200 [8.0]	3.46	16400 [4.8]	2.3	8.2	7489176
RP1442AC1	RH1T4824STAN	42500 [12.5]	33200 [9.7]	9300 [2.7]	14	11.5	1550 [731.5]	39500 [11.6]	3.54	25000 [7.3]	2.46	8.2	7492729
RP1442AJ1	RH1T4824STAN	42500 [12.5]	33200 [9.7]	9300 [2.7]	14	11.5	1550 [731.5]	39500 [11.6]	3.54	25000 [7.3]	2.46	8.2	7492730
RP1448AC1	RH1T4824STAN	48000 [14.1]	35700 [10.5]	12300 [3.6]	14	11.5	1550 [731.5]	45500 [13.3]	3.66	29800 [8.7]	2.66	8.2	7492731
	RH1V4821STAN	47000 [13.8]	33700 [9.9]	13300 [3.9]	14	11.5	1400 [660.7]	45000 [13.2]	3.6	29200 [8.6]	2.54	8.2	7492732
	RH1V4824STAN	48500 [14.2]	36700 [10.8]	11800 [3.5]	14	11.5	1625 [766.9]	45500 [13.3]	3.66	29800 [8.7]	2.66	8.2	7492733
RP1448AJ1	RH1T4824STAN	48000 [14.1]	35700 [10.5]	12300 [3.6]	14	11.5	1550 [731.5]	45500 [13.3]	3.66	29800 [8.7]	2.66	8.2	7492734
	RH1V4821STAN	47000 [13.8]	33700 [9.9]	13300 [3.9]	14	11.5	1400 [660.7]	45000 [13.2]	3.6	29200 [8.6]	2.54	8.2	7492735
	RH1V4824STAN	48500 [14.2]	36700 [10.8]	11800 [3.5]	14	11.5	1625 [766.9]	45500 [13.3]	3.66	29800 [8.7]	2.66	8.2	7492736
RP1460AC1	RH1V6024STAN	56500 [16.6]	40700 [11.9]	15800 [4.6]	14	11.5	1800 [849.5]	57000 [16.7]	3.84	35800 [10.5]	2.7	8.2	7492737
RP1460AJ1	RH1V6024STAN	56500 [16.6]	40700 [11.9]	15800 [4.6]	14	11.5	1800 [849.5]	57000 [16.7]	3.84	35800 [10.5]	2.7	8.2	7492738

[ ] Designates Metric Conversions

GUIDE SPECIFICATIONS

General

System Description

Outdoor-mounted, air-cooled, split-system heat pump unit suitable for ground or rooftop installation. Unit consists of a hermetic compressor, composite basepan, an air-cooled coil, propeller-type condenser fan, suction and liquid line service valve, and a control box. Unit will discharge supply air upward as shown on contract drawings. Unit will be used in a refrigeration circuit to match up to a coil unit.

Quality Assurance

- — Unit will be rated in accordance with the latest edition of AHRI Standard 210.
- — Unit will be certified for capacity and efficiency, and listed in the latest AHRI directory.
- — Unit construction will comply with latest edition of ANSI/ASHRAE and with NEC.
- — Unit will be constructed in accordance with UL standards and will carry the UL label of approval. Unit will have c-UL-us approval.
- — Unit cabinet will be capable of withstanding ASTM B117 1000-hr salt spray test.
- — Air-cooled condenser coils will be leak tested at 150 psig and pressure tested at 550 psig.
- — Unit constructed in ISO9001 approved facility.

Delivery, Storage, and Handling

- — Unit will be shipped as single package only and is stored and handled per unit manufacturer's recommendations.

Warranty (for inclusion by specifying engineer) — U.S. and Canada only.

Products

Equipment

Factory assembled, single piece, air-cooled heat pump unit. Contained within the unit enclosure is all factory wiring, piping, controls, compressor, refrigerant charge R-410A, and special features required prior to field start-up.

Unit Cabinet

- — Unit cabinet will be constructed of galvanized steel, bonderized, and coated with a powder coat paint.
- — All units constructed with louver coil protection and corner post. Louver can be removed by removing one fastener per louver panel.

AIR-COOLED, SPLIT-SYSTEM HEAT PUMP
RP14
1-1/2 TO 5 NOMINAL TONS

Fans

- — Condenser fan will be direct-drive propeller type, discharging air upward.
- — Condenser fan motors will be totally enclosed, 1-phase type with class B insulation and permanently lubricated bearings. Shafts will be corrosion resistant.
- — Fan blades will be statically and dynamically balanced.
- — Condenser fan openings will be equipped with coated steel wire safety guards.

Compressor

- — Compressor will be hermetically sealed.
- — Compressor will be mounted on rubber vibration isolators.

Condenser Coil

- — Condenser coil will be air cooled.
- — Coil will be constructed of aluminum fins mechanically bonded to copper tubes.

Refrigeration Components

- — Refrigeration circuit components will include liquid-line shutoff valve with sweat connections, vapor-line shutoff valve with sweat connections, system charge of R-410A refrigerant, and compressor oil.
- — Unit will be equipped with filter drier for R-410A refrigerant for field installation.

Operating Characteristics

- — The capacity of the unit will meet or exceed _____ Btuh at a suction temperature of _____ °F/°C. The power consumption at full load will not exceed _____ kW.
- — Combination of the unit and the evaporator or fan coil unit will have a total net cooling capacity of _____ Btuh or greater at conditions of _____ CFM entering air temperature at the evaporator at _____ °F/°C wet bulb and _____ °F/°C dry bulb, and air entering the unit at _____ °F/°C.
- — The system will have a SEER of _____ Btuh/watt or greater at DOE conditions.

Electrical Requirements

- — Nominal unit electrical characteristics will be _____ v, single phase, 60 hz. The unit will be capable of satisfactory operation within voltage limits of _____ v to _____ v.
- — Nominal unit electrical characteristics will be _____ v, three phase, 60 hz. The unit will be capable of satisfactory operation within voltage limits of _____ v to _____ v.
- — Unit electrical power will be single point connection.
- — Control circuit will be 24v.

Special Features

- — Refer to section of this literature identifying accessories and descriptions for specific features and available enhancements.

GENERAL TERMS OF LIMITED WARRANTY*

Rheem will furnish a replacement for any part of this product which fails in normal use and service within the applicable period stated, in accordance with the terms of the limited warranty.

***For complete details of the Limited and Conditional Warranties, including applicable terms and conditions, contact your local contractor or the Manufacturer for a copy of the product warranty certificate.**

Conditional Parts
(Registration Required) .....Ten (10) Years

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In keeping with its policy of continuous progress and product improvement, Rheem reserves the right to make changes without notice.

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Fort Smith, Arkansas 72917 • www.rheem.com

Rheem Canada Ltd./Ltée • 125 Edgeware Road, Unit 1
Brampton, Ontario • L6Y 0P5

INTEGRATED HOME COMFORT

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